PATENT COOPERATION TREATY

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From the INTERNATIONAL	SEARCHING	AUTHORITY
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PCT LAW GROUP HOLD

SEED INTELLECTUAL PROPERTY LAW GROUP PLLC Attn. Potter, Jane, E. R. Suite 6300
701 Fifth Avenue Seattle, WA 98104-7092 UNITED STATES OF AMERICA

rom the INTERNATIONAL SEARCHING ACTIONAL	7
SEED INTELLECTUAL PROPERTY LAW	INVITATION TO PAY ADDITIONAL FEES
ROUP PLLC ttn. Potter, Jane, E. R.	(PCT Article 17(3)(a) and Rule 40.1)
uite 6300	
01 Fifth Avenue eattle, WA 98104-7092	
NITED STATES OF AMERICA	
-	Date of mailing (day/month/year) 10/04/2002
opplicant's or agent's file reference	PAYMENT DUE within 45 KMK/s/days from the above date of mailing
210121.42723	International filing date
nternational application No.	(day/month/year) 27/03/2001
PCT/US 01/09919	
Applicant	İ
CORIXA CORPORATION	
This International Searching Authority	u. a international application covered
c=1	(number of) inventions claimed in the international application covered
(i) considers that there are by the claims indicated MANNAM/on the extra sheet:	
)	does not comply with the requirements of unity of invention ated ⇔ext.
and it considers that the international application (Rules 13.1, 13.2 and 13.3) for the reasons indicated	ated DEX won the extra sheet:
(Nules 10.11) 10.12	
	will establish the international search report
(ii) X has carried out a partial international searc	in (see Afflex)
on those parts of the international application wh	nich relate to the invention first mentioned in claims Nos.:
1-17 (all partially)	cut a international application only if, and to the extent
(iii) will establish the international search report on	the other parts of the international application only if, and to the extent
to which, additional fees are paid	is diseased above, to pay the amount indicated below:
2. The applicant is hereby invited, within the time limit	t indicated above, to pay the amount indicated below:
	650 = =
Tax not additional invention number of a	
x	
The applicant is informed that, according to Hule 40.	rnational application complies with the requirement of unity of inventor
i.e., a reasoned statement to the effect that the inter- or that the amount of the required additional fee is ex	have been found to be unsearchable under
3. X Claim(s) Nos. <u>further info</u>	have been found to be unsearchable under cle 17(2)(a) and therefore have not been included with any invention.
Name and mailing address of the International Searching	Authority Authorized officer
Name and mailing address of the information European Patent Office, P.B. 5818 Patentiaa	Barbara Klaver

European Patent Office, P.B. 5818 Patentia NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016



Annex to Form PCT/ISA/206 COMMUNICATION RELATING TO THE RESULTS OF THE PARTIAL INTERNATIONAL SEARCH

International Application No PCT/US 01/09919

- 1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- 1-17
 2.This communication is not the international search report which will be established according to Article 18 and Rule 43.
- 3.If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
- 4.If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

DOCUME	NTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
tegory °	Citation of document, with indication, where appropriate, of the relevant passages	
	WO 98 37039 A (TADA KEISHI ;SAKAI YUICHI (JP); ASAHI CHEMICAL IND (JP); KOBAYASHI)	1-9, 11-16
	27 August 1998 (1998-08-27) the whole document	10,17
<u>,</u>	SEQ ID NO 1 WO 98 37418 A (CORIXA CORP) 27 August 1998 (1998-08-27) the whole document	1-8, 11-16
	SEQ ID NO 1	1-17
(Y	# WO 00 04149 A (CORIXA CORP) 27 January 2000 (2000-01-27) the whole document	10,17
E	SEQ ID NO 1 WO 01 25272 A (CORIXA CORP; REED STEVEN G (US); XU JIANGCHUN (US); CHEEVER MARTIN) 12 April 2001 (2001-04-12)	9-17
E	claims 50-71 WO 01 34802 A (HARLOCKER SUSAN L ;CORIXA CORP (US); DAY CRAIG H (US); JIANG YUQIU) 17 May 2001 (2001-05-17) claims 31-55	9-17
E	WO 01 51633 A (FANGER GARY RICHARD; HARLOCKER SUSAN L (US); MEAGHER MADELEINE JOY) 19 July 2001 (2001-07-19) claims	1-17
	Patent fo	amily members are listed in annex.
	Further documents are listed in the continuation of box C.	
"A" doo cr "E" ea fi "L" doo ''O" do	cument defining the general state of the art which is not cited to und invention onsidered to be of particular relevance invention onsidered to be of particular relevance "X" document of cannot be comment which may throw doubts on priority claim(s) or cument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cannot be comment when the exercise reason (as specified)	nt published after the international filing date and not in conflict with the application but lerstand the principle or theory underlying the particular relevance; the claimed invention considered novel or cannot be considered to inventive step when the document is taken alone of particular relevance; the claimed invention considered to involve an inventive step when the is combined with one or more other such docuth cornbination being obvious to a person skilled

Patent Family Annex

Information on patent family members

International Application No
PCT/US 01/09919

Patent document		Publication	_	Patent family member(s)	Publication date
wo 9837039	A	27-08-1998	AU AU EP JP WO JP	727823 B2 6229598 A 0976699 A1 10291880 A 9837039 A1 11071192 A	21-12-2000 09-09-1998 02-02-2000 04-11-1998 27-08-1998 16-03-1999
WO 9837418	Α	27-08-1998	AU BR EP JP WO ZA	6536898 A 9807734 A 0972201 A2 2001513886 T 9837418 A2 9801536 A	09-09-1998 31-10-2000 19-01-2000 04-09-2001 27-08-1998 08-01-1999
WO 0004149	Α	27-01-2000	AU BR CN EP NO WO US	5314899 A 9912007 A 1315998 T 1097208 A2 20010196 A 0004149 A2 6329505 B1 2002022248 A1	07-02-2000 29-01-2002 03-10-2001 09-05-2001 12-03-2001 27-01-2000 11-12-2001 21-02-2002
WO 0125272	Α	12-04-2001	AU WO	7994200 A 0125272 A2	10-05-2001 12-04-2001
WO 0134802	Α	17-05-2001	US AU AU WO WO US	6329505 B1 1656501 A 6158700 A 0104143 A2 0134802 A2 2002022248 A1	11-12-2001 06-06-2001 30-01-2001 18-01-2001 17-05-2001 21-02-2002
WO 0151633	A	19-07-2001	AU AU WO WO US	3447401 A 6158700 A 0104143 A2 0151633 A2 2002022248 A1	24-07-200 30-01-200 18-01-200 19-07-200 21-02-200



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n the INTERNATIONAL SEARCHIN	- ALL ODOLL	INVITATION TO PAY ADDITIONAL FEES
ED INTELLECTUAL PROPERTY PLLC ttn. POTTER, Jane E.R uite 6300	Y LAW GROU	(PCT Article 17(3)(a) and Rule 40.1)
oite 0300 01 Fifth Avenue eattle, WA 98104-7092 NITED STATES OF AMERICA		Date of mailing (day/month/year) 25/09/2001
us file reference	<u> </u>	PAYMENT DUE within 45 MXXIXS/days from the above date of mailing
Applicant's or agent's file reference 210121. 42720	—	International filing date (day/month/year) 09/11/2000
International application No. PCT/US 00/ 30904		
Applicant CORIXA CORPORATION et a	al.	
has carried out	e international application (3.3) for the reasons indication (1.3.3) for the reasons indication (1.3.3) for the reasons indication (1.3.3) for the reasons in the reasons i	actional application only if, and to the extent
See addit	h roport Of	n the other parts of the international approximation
2. The applicant is hereby	invited, within the time lin	of additional inventions = FUR 424.305,00 total amount of additional fees
Fee per additional II Or,	ed that, according to Rule	40.2(c), the payment of any additional fee may be made under protest, international application complies with the requirement of unity of invention
3. X Claim(s) Nos. Article 17(2)(b)	See Remark. Decause of defects under A	Article 17(2)(a) and therefore its control of the second its control o
Name and mailing address European Pate NL-2280 HV R Tel. (+31-70) 3 Fax: (+31-70)	kijswijk 340-2040, Tx. 31 651 epo 340-3016	nl,

INVITATION TO PAY ADDITIONAL FEES

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 14-64 partially

A polypeptide comprising at least an immunogenic portion of a prostate tumor protein defined as SEQ ID 108 and which is encoded by the related SEQ IDs 2,3,107 (according to the Description of the Sequence Identifiers), fragments and variants thereof, fusion proteins comprising it, polynucleotides or oligonucleotides derived therefrom, antibodies or fragments thereof binding to the polypeptide, pharmaceutical compositions or vaccines comprising these products and their use in methods for inhibiting, monitoring or diagnosing the development of a prostate cancer, for removing tumor cells from a sample or for expanding and/or stimulating T-cells.

Inventions 2-450: Claims 1-64 (all partially and as far as applicable)

As for subject 1 but concerning respectively SEQ IDs 1,4-106,109-111,115-171,173-175,177,179-305,307-315,326,328,330,332-335,340-375,381,382,384-476,524,526,530,531,533,535 and 536.

The use of polypeptides derived from prostate cancer cells for the development of therapeutic and diagnostic means has been well documented in the prior art:

- [1] W09733909, W09837093 and W0 9837418 disclose polypeptides for treating and diagnosing prostate cancer. These polypeptides (or the corresponding nucleic acid sequences) are used for the preparation of vaccines and other pharmaceutical compositions, antibodies, probes or primers
- [2] In IMMUNOTECHNOLOGY 3 (1997),161-172, Sjögren, H. reviews the various techniques used for cancer-vaccination by using engineered cells. In figures 1 and 2, the author summarises the key factors involved in the interactions between T-cells and antigen-presenting cells, in particular dendritic cells. The success of these therapy is examplified, among others, with prostate cancer in rats (see pages 167 and 168).

In view of the prior art, the problem underlying the application can be defined as the provision of further polypeptides derived from prostate cancer.



PCT/US 00/30904

The solutions proposed in the underlying application can be summarised as the polypeptides (and the corresponding nucleic acids) as defined in claims 1 and 31.

Due to the fact that the use of polypeptides derived from prostate cancer cells for the development of therapeutic and diagnostic means known in the prior art, that therapeutic immunization techniques against cancers, and especially prostate cancer are common state of the art, due to the essential difference in primary structure of the different groups of solutions, and due to the fact that no other technical features can be distinguished which, in the light of the prior art could be regarded as special technical features, the ISA is of the opinion that there is no single inventive concept underlying the plurality of claimed inventions of the present application in the sense of rule 13.1 PCT. Consequently there is lack of unity.

The applicant states and shows that some sequences as defined in claims 1 and 31 correspond to the same product (e.g. clone F1-12 corresponds to SEQ IDs 2,3, 107 and 108) and therefore to the same inventive concept. Nevertheless, due to the lack of an obvious and straight forward relationship between the product designations and the corresponding sequences in the Sequence Listing, the ISA had to consider (with exception of Subject 1.) each sequence as a different invention formulated as the 450 different subjects on the communication pursuant to Art. 17(3)(a) PCT.

In case the applicant choses to pay one or more additional search fees for any of subjects 2 to 450, and provides a clear relationship between a product designation and several of the sequences, the ISA is willing to regroup these sequences in one search effort.

International Application No. PCT/US 00/30904

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 206

Continuation of Box 3.

Although claims 23 24 31-33 36 37 39-41 are (partially) directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Annex Form PCT/ISA/206 COMMUNICATION RELATING TO THE RESULTS OF THE PARTIAL INTERNATIONAL SEARCH

- 1.The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
- 1-11 14-64 2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
- 3.If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
- 4.If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

	ENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
X	WO 98 37093 A (CORIXA CORP) 27 August 1998 (1998-08-27)	1-11, 14-24, 60,61, 63,64
Y	the whole document	25-41
X	WO 98 37418 A (CORIXA CORP) 27 August 1998 (1998-08-27) the whole document	1-11, 42-64
X	DATABASE EMBL 'Online! Accession no AF047020 Sequence ID AF047020, 20 February 1998 (1998-02-20) ALBERS C ET AL: "Human alpha-methylacyl-CoA racemase cDNA sequence" XP002176408 abstract	1-11,60, 61,63,64
Y	EP 0 317 141 A (BECTON DICKINSON CO) 24 May 1989 (1989-05-24) the whole document -/	34-36

° Special categories of cited documents :

"A" document defining the general state of theart which is not considered to be of particular relevance

"E" earlier document but published on or after theinternational filing date

"L" document which may throw doubts on priority chim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

 "O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

- *T* later document published after theinternational filing date or priority date and not in conflict with theapplication but cited to understand the principle or theory underlying the
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more othersuch documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

invention

Annex Form PCT/ISA/206 COMMUNICATION RELATING TO THE RESULTS OF THE PARTIAL INTERNATIONAL SEARCH

hational Application No
PCT/US 00/30904

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	In the section No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SCHMIDT-WOLF G D ET AL: "Activated T cells and cytokine-induced CD3+CD56+ killer cells." ANNALS OF HEMATOLOGY, vol. 74, no. 2, 1997, pages 51-56, XP002176407 ISSN: 0939-5555 the whole document	34-36
Α	WO 97 33909 A (CORIXA CORP) 18 September 1997 (1997-09-18)	
Υ	SJOGREN H 0: "Therapeutic immunization against cancer antigens using genetically engineered cells" IMMUNOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS BV, NL, vol. 3, no. 3, 1 October 1997 (1997-10-01), pages 161-172, XP004097000 ISSN: 1380-2933 the whole document	25-33, 37-41
Р,Х	WO 00 04149 A (CORIXA CORP) 27 January 2000 (2000-01-27) the whole document	1-11, 14-64
E	(US); XU JIANGCHUN (US); CHEEVER MARTIN) 12 April 2001 (2001-04-12) claims	1-11, 14-64

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atent Family Annex

Information on patent family members

Il stional Application No
PCT/US 00/30904

Patent document		Publication		itent family	Publication	٦
cited in search report		date	m	nember(s)	date	_
WO 9837093	A	27-08-1998	US AU CN EP HU NO PL TR US ZA	6261562 B 731840 B 6181898 A 1252837 T 1005546 A 0002095 A 994069 A 335348 A 9902053 T 6262245 B 9801585 A	17-07-2001 05-04-2001 09-09-1998 10-05-2000 07-06-2000 28-10-2000 22-10-1999 25-04-2000 21-04-2000 17-07-2001 04-09-1998	
WO 9837418	Α	27-08-1998	AU BR EP ZA	6536898 A 9807734 A 0972201 A 9801536 A	09-09-1998 31-10-2000 19-01-2000 08-01-1999	
EP 0317141	А	24-05-1989	US AT DE DE ES JP	5041289 A 108659 T 3850745 D 3850745 T 2059537 T 2002345 A	20-08-1991 15-08-1994 25-08-1994 24-11-1994 16-11-1994 08-01-1990	
WO 9733909	A	18-09-1997	AU AU BR CA EP NO US	728186 B 2329597 A 9708082 A 2249742 A 0914335 A 984229 A 6034218 A	04-01-2001 01-10-1997 27-07-1999 18-09-1997 12-05-1999 13-11-1998 07-03-2000	
WO 0004149	Α	27-01-2000	AU EP NO	5314899 A 1097208 A 20010196 A	07-02-2000 09-05-2001 12-03-2001	
WO 0125272	Α	12-04-2001	AU	7994200 A	10-05-2001	
					- - ·	

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO. US 9205810 SA 62391

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information. 06/10/92

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP-A-0098118	11-01-84	US-A-	4503142	05-03-85
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Protein stabilising sequence

Bacillus subtilis.

serum protease; vaccine.

WO9303156-A.

09-JUL-1992;

18-FEB-1993.

26-JUL-1991;

91US-0736447. 92WO-US05810 XXXXX

16-JUN-1993 AAR32355

(first entry)

RESULT 21 AAR32355

AAR32355 standard; Protein; 29 AA

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AAM31749
ID
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             09-AUG-2001.
                                                                                                      AAM31749
30-JAN-2001; 2001WO-US00663.
                                                             Probe;
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                                                                                                                   Protein;
                                                                           probe
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                                                             antenatal diagnosis;
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lglksde

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Matches Query Match Best Local

Similarity 7; Conserv

Conservative

100. 1.8%; J.08; 0;

Score 7; Pred. No.

Mismatches

248 LGLKSDE 254

Sequence proteins,

esp. 29

6

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Alpha-helix; proteolysis; sigma factor; RNA polymerase; beta-galactosidase; proinsulin; epidermal growth factor; EGF;
                                                                                                                                                                                                                                                                                                                                                                                                     Polypeptide sequence for stabilising proteins against proteolysis - is expressed as recombinant fusion protein by DNA vector, has hydrophobic and positively charged polar faces
                                                                                                                                                                                                                                                   a proteolytically sensitive protein. It is derived, originally from B. subtilis sigma factor and can be used to stabilise, eg. RNA polymerase sigma factor from B. subtilis or E. coli; betagalactosidase; proinsulin; epidermal growth factor; etc.
                                                                                                                                                                                                                                                                                                                     The sequence is a peptide capable of forming a protecting hydrophobic faced alpha-helix structure when attached to
                                                                                                                                                                                                The peptide can be attached in vitro (e.g. to protect antigenic vaccine components against serum protease after injection) but is usually incorporated during in vivo synthesis of recombinant fusion
                                                                                                                                                                                     protect against serum proteases
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26-MAY-2000;
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                                                   Fragment of alpha-subunit chicken inhibin.
                                                                                   04-FEB-1996
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Inhibin; peptide
FSH; egg laying,
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                                                                                                                                                     AR82858 standard; Protein; 77
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                                                                                                                                                                                                                                                                                                                                                                                          equence
                                                                                                                                                                                                                                         26 snkykas 32
                                                                                                                                                                                                                                                                                                                                                                                                                                   present invention relates to single exon nucleic acid probes (SENP: NAI3131-AAI57546). The present sequence is a peptide encoded by one probe. The probes are useful for producing a microarray for icting, measuring and displaying gene expression in samples derived human placenta. The probes are useful for antenatal diagnosis of denoted the discrete.
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                                                                                                                                                                                                                                                                                                                                                                                                                          genetic disorders.
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7; Conser
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Mormone; ovulation; follicle stimulating hormone;
cholesterol; puberty; ostrich.
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WPI; 1993-076513/09 N-PSDB; AAQ36972.

Haldenwang WG,

(TEXA) UNIV TEXAS SYSTEM

Claim 7; Page 23 + Fig 1; 33pp; English.

N-PSDB; AAT01006 WPI; 1995-311377/40 Fioretti WC,

Kousoulas

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(AGRI-) AGRITECH LAB INC. (LOUU) UNIV LOUISIANA ST

STATE

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AGRIC & MECH COLL.

Avian inhibin alpha-sub-unit fusion protein τ useful for accelerating onset of egg laying in bird(s) and for reducing cholesterol levels in

X P X P X P

31-A&G-1995 W09522980-A.

28-FEB-1994;

94US-0202964 95WO-US02795

6-FEB-1995;

Gallus domesticus.